

LAN + WiFi + Cellular

Smart Home Alarm System

User Manual

Table of Content

● Introduction	P2
● Notice	P2
● Safety	P3
● Requirements	P3
● System Status & User Authorities	P4
● Appearance	P5
● Setup	P7
● App operation introduction	P9
● FAQ	P15
● Specifications	P16

Introduction

- Thank you for purchasing the Nova Pro Smart Alarm System. Nova Pro offers you a complete control over your home security and automation via your smartphone. This manual will guide you through the setup procedures and highlight some key features.
- The system operates on smartphones.
- Please note that all contents listed here might be slightly different from the contents of the package or the App. Please check the latest version of the user manual.
- Version: V1.0

Notice

- All sensors and devices in the package have already been paired with the panel before shipping. Users can start using the whole system after setting up the network. Accessories purchased separately (like sensors or smart devices) need to be paired with the system for proper use.
- The system is designed for easy setup. If any problem occurs during the setup, please contact your distributor for help.
- Please store all manuals, nameplates and stickers with QR codes or barcodes for further use.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- 2 Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
The distance between user and device should be no less than 20cm.

Safety

- This system is designed to minimize majority of risks and to ensure the safety of your home, however it does not guarantee protection against burglary, robbery, theft, or any type of emergencies. Users should continue to act prudently to protect the security of their lives and property.
- Any alarm system is subject to compromise or failure for a variety of reasons as follows:
 - An intruder may gain access through unprotected openings.
 - An intruder may have the technical sophistication to bypass a sensor or the whole system.
 - Signals sent by the panel or sensors may be blocked or reflected without being received, and a block may occur if metal objects are placed into the path of the signal.
 - Motion sensors can only detect the intrusion within the specified ranges and unobstructed areas.
 - Malfunction of routers, limited services by wireless phone carriers or internet service providers, limited service such as text messages or push notification provided by smartphone makers.
 - Component failures or some other faults happen in the electrical system.

Requirements

- Wired/Wireless Router compatible with Wi-Fi IEEE 802.11 b/g/n standard
- Provision of Internet Service
- Mobile phone SIM card (supporting GSM/WCDMA/LTE)
- iPhone or Android smartphone
- iOS version 7.0 or higher
- Android version 4.3 or higher
- Bluetooth 4.2 or higher

System Status & User Authorities

- The Nova Pro system does not support any wired sensors. The panel communicates with all sensors via wireless RF signals. Most of the sensors have low battery warning features. In the event of low battery, notifications will be sent to the APP. Smoke detector and CO sensor work at full time.
- The system can set its security status according to the commands given by users or the signals sent from the triggered sensors.

- ARM:

All working sensors can be triggered. The system will generate alarms when receiving alert signals sent from sensors.

- DISARM:

This mode will de-activate all sensors. This mode will also turn off the siren and stop the alarm process.

- HOME ARM:

This mode will allow some selected sensors to remain working while others are de-activated. These sensors can be selected in App.

- SOS:

This mode will trigger built-in siren and send alarm messages to emergency contacts. It also triggers external sirens or other sensors like smart plugs.

- There are three levels of user authorities, shown as below.

- ADMINISTRATOR:

Who can fully control the system and invite other users with assigned authorities.



- USER:

Who can operate ARM/DISARM/HOME ARM/SOS, control the smart plugs and cameras, can also invite other people as USER or GUEST.



- GUEST:

Who can only operate ARM / DISARM / HOME ARM.

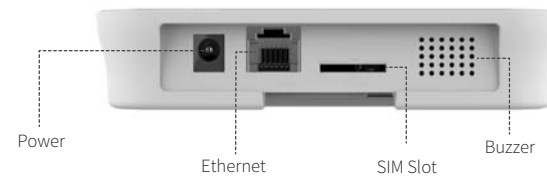


Appearance

• Top View

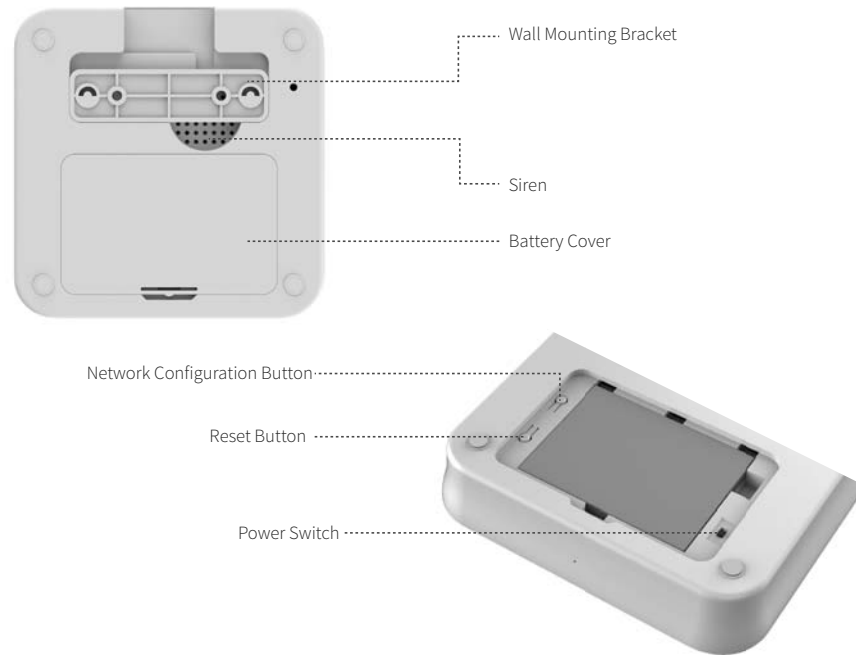


• Rear View



STATUS	LED	INDICATION
Operation	Light ON	ARM/DISARM/HOME ARM/SOS.
Setting	Fast Blinking	Network Configuration
		Reseting
		Updating
Faults	Slow Blinking	Low Battery
		Network Fault
		Other Faults

• **Bottom View**



Setup

• Internet Connection Requirements

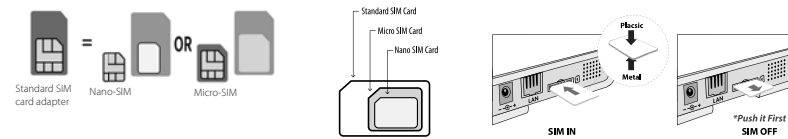
- Please ensure the router you are using has already been connected to the Internet with DHCP mode enabled. Nova Pro supports IPV4 protocol only.
- The system supports the following types of connection:
 - LAN: 10/100M Ethernet.
 - Wi-Fi: 2.4GHz, WEP/WPA/WPA2 encrypted.

• Place the Panel at a Suitable Place

- If Wi-Fi is used to connect the panel to internet, please make sure the panel is placed under Wi-Fi coverage before installation. (It is recommended to use your phone to help verify the Wi-Fi coverage at the spot.

• Install the SIM Card (Optional)

- Insert a standard SIM card. Please place the Nano-SIM or Micro-SIM to a card adapter for installation.

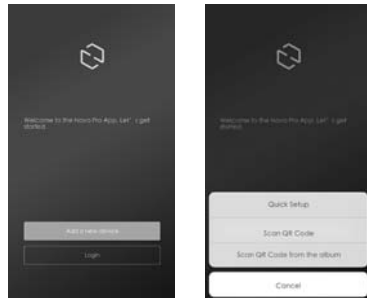


• Get Ready for Setup



- Download the "Nova Pro" APP from either iOS APP Store or Google Play by searching "Nova Pro", or scan the QR code below with your mobile phone.
- Please open the lid on the back of the device, and turn on the power button. The indicator on the panel will flash and after approximately 45 seconds a beep sound should occur indicating the device being activated. Make sure the Bluetooth is activated on your phone and place the panel close to 2.4GHz Wi-Fi signal.



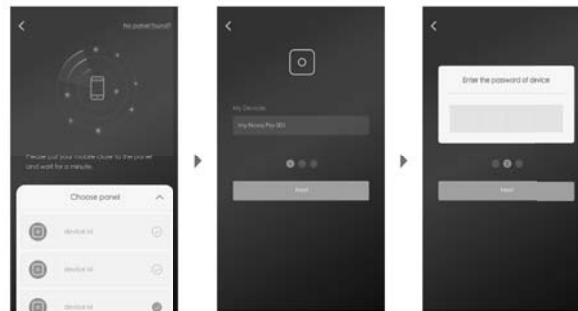


• Add the Panel

- Make sure your mobile phone is connected to the internet. Open the APP, click on "Add a new device"

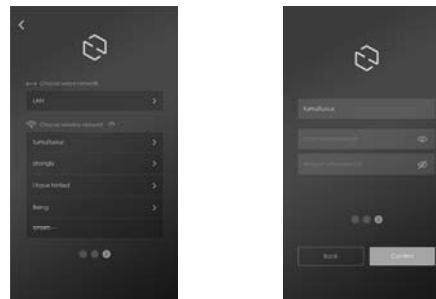
• Set Up Password

- APP will automatically scan for panels available nearby and display their names for which you can choose to connect. After successfully connecting the panel, please rename the device and setup a password for future configuration purpose.



• Configure the Wi-Fi Setting of the Panel

- Select the Wi-Fi you want the panel to connect with and input the password to finish setup.



• Check Setting

- Make sure your mobile phone has been connected to the Internet via cellular or Wi-Fi.
- Try pressing ARM/DISARM button in the App, to see if the status icon would be changed accordingly.
- Try using remote control, pressing ARM / DISARM button to see if the status icon in the App would be changed accordingly.

• Installation

- Close the battery cover.
- Place the panel on a desktop or using the bracket to mount it on the wall.

APP Operation Introduction

• Home Page

User Settings

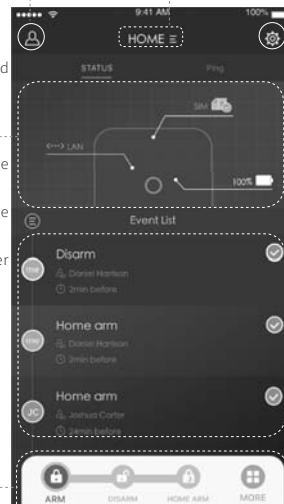
The entry for all account settings.
- Device List.
- Account Information: Phone, Email and Password.

Real-time Status Diagram

It shows a real-time system status and the quality of network connection.
Any change of system status is indicated in the diagram.
Colors and icons are used here for better illustration.

Security Status Control

Change the system status between Arm-Disarm-Home Arm.



Device List

Select the panel to be managed from drop-down list.
- Add/Remove panels.

System & App Settings

The entry for system settings and App settings.
- Add/remove accessories.
- Configure system settings, eg: Exit Delay, Entry Delay, Duress Alarm and etc.
- Firmware update, network settings and device advanced settings.

Event List

An event is an operation conducted by users or a status change triggered by accessories.
The events are sorted by time, the latest event is shown on the top.

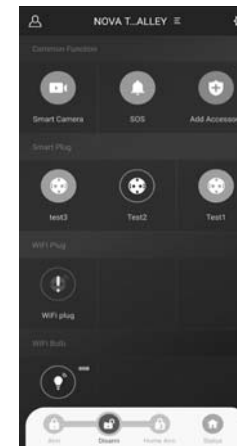
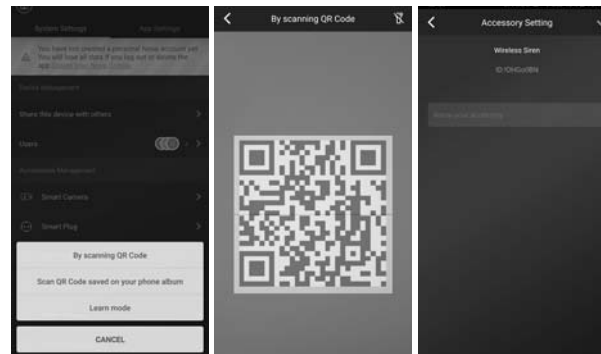
• Dashboard

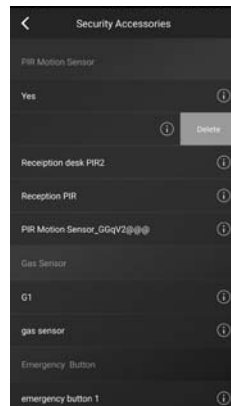
- Press Dashboard to switch to the dashboard page.
- You can press SOS to trigger alarm or enter device control page.

• Pairing New Accessories

Scan QR Code **Recommended**

Tap [Scan QR Code] -----> Code is printed on every accessory. -----> Name





• Delete an Accessory

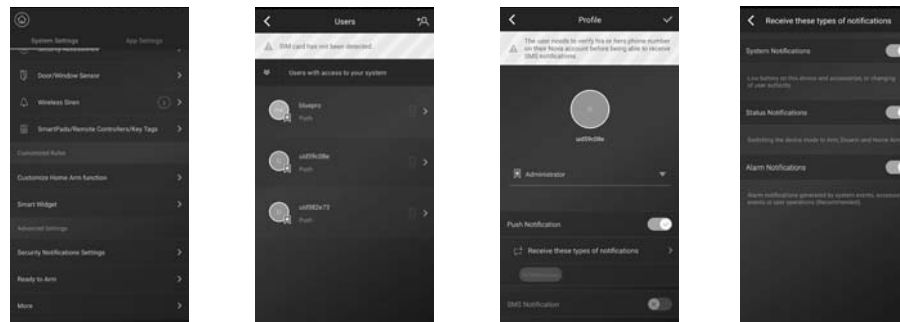
- Choose the accessory to be removed from the system, and slide the column to the left until a "Delete" button appears.
- Click the "Delete" button and confirm to finalize the removal.

• Share with Others

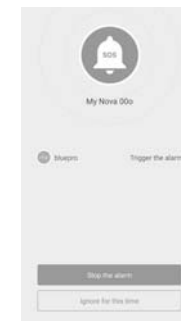
- The owners can easily share their devices with the family members or friends.
- Select [System Settings] - [Share this device with others] should generate a unique QR code which contains the identification of shared panel and the assigned authority.
- Users can send this QR code to others by Facebook or WhatsApp. By launch the Nova Pro APP, others can click [Device List] - [System - Management], click the "+" icon on the top right corner and select [Add a new device] to add the shared panel to their APP.

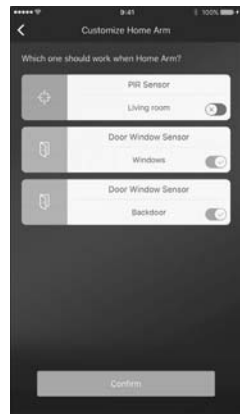


• Emergency Contacts Settings



- All App users are listed in Emergency Contact list automatically.
- Users can add mobile phone numbers in [Other Contacts] list.
- For the App users, the [Push Notification] option is enabled by default, while the [SMS Notification] is disabled by default. (SIM card required)
- For other contacts, the [SMS Notification] is enabled by default.
- When an emergency occurs, the App users should get push notifications, while other users get alert SMS message sent from the panel.



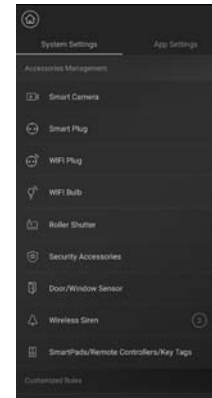


• Home Arm Settings

- By configuring Home Arm status in the APP, users can activate certain sensors while at home.
- When [Home Arm] button is activated for the first time, the setup procedure should commence.
- Only those sensors support Home Arm feature will be listed here.

• Accessories Management

- All accessories are listed in [Device Setting]-[Accessories Management], and are sorted by their types.
- Users can add, remove, and modify their settings here.
- Users can also control their cameras and plugs in the App.

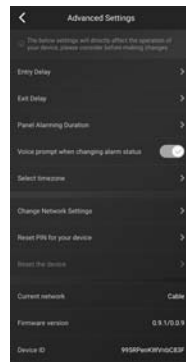


• Smart Widgets

-Anti-interference: by enable this, it will trigger alarm when system receive interfering signals. Disable anti-interference and the system will ignore interfering signal. (Anti-interference will not function when the system is in disarm status.)

Timed Tasks: it allows to schedule a task or a daily task. For instance, set up a daily task of home arm for supervised premises at 10 PM.

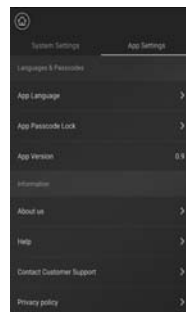
Smart Following: when the system is switched to certain status, the pre-setup instructions for chosen accessories will be executed accordingly. Users can add accessories and configure their status when instructions are executed.



• Advanced Settings

In this section, the following settings can be executed:

- Security Notifications Settings: it allows to setup notification language and duress alarm, which allows users to input pre-set duress code on the keypad to stop alarm and meanwhile send pre-set emergency messages to other designated contacts.
- Ready to Arm: if this feature is enabled, when arm or home arm the premises, the system will notify if there is a contact sensor is in open status.
- Entry Delay: users can select which sensors should be held for transmitting alarm signals for preset time.
- Exit Delay: by enabling this, the system will wait for the preset time before responding to ARM or HOME ARM instructions.
- Siren Duration: it defines how long the built-in siren should sound in event of alarm activation.
- Network & Password Settings: it allows to reset the network parameters and the system password.
- Arm/Disarm Indication: it allows to turn on/off the sound of indication
- Select Time zone: manually select appropriate time zone.



• App Settings

In this section, the following settings can be executed:

- Change App Language: it supports multi-languages which can be easily switched in App.
- Passcode Lock: by enabling this feature, you will be asked to enter the passcode every time when App is activated from the background. For iPhone, the Touch-ID feature is also supported.
- Help & Feedbacks: users can watch some tutorials online and send feedbacks to customer service directly in App.

FAQ

Q: When the Internet connection is down, can the system still protect me?

A: LAN/Wi-Fi/Cellular are used for communication. As recommended, LAN provides the most reliable Internet connection. In case that LAN and Wi-Fi both fail, the cellular network will work as a backup.

In most cases, the disconnection of Internet is caused by electricity failure, which means the system might have to run with the backup battery. In this case, we would suggest that you set the cellular network mode only for emergency use to save power. With backup battery, this system can work perfectly to protect your home even if Internet connection is not available.

Q: Sim card cannot be recognized.

A: The panel only supports GSM SIM card. For LTE SIM card, please contact your carrier to ensure the support of GSM phone call and SMS message.

Q: How to reset the system? Would all my data be erased?

A: To reset the system, please remove the battery cover and press the reset button for 5 seconds. The system will erase all data and restarts. In order to restore the data, please create your own account in the APP, before reset the system. After the reset, login to your account in the APP to recover your data.

Q: When operating in the App, it is slow/lag/always waiting for reactions.

A: To better solving your problem, please follow the instructions below before request help from distributor:

- Use LAN cable instead of Wi-Fi for the panel.
- Try restart the router connected to the panel or your phone.
- Disable any VPN connection from your phone or router, for directly connecting to the Internet.
- In the home page of the App, tap the [Net Status] to see if the connection of the panel works properly.

Specifications

Capability		Working Environment	
CPU	ARM Cortex-A7	Working Temp.	-10°C-60°C
Power Supply		Installation & Materials	
Auxiliary power	DC 5V 2A	Installation	Desktop, Wall Mounted
Backup batteries	Rechargeable Lithium Polymer battery 2200mAh	Shell Material	ABS/PC
Stand-by time	8 hours (fully charged)	Key Features	
RF Capability		Total input accessories	99
Frequency	433.92MHz	Keypad Supported	Works with wireless keypad
Distance	300 m. / 1000 ft.	Smart Devices	Works with networking camera and smart plug
Connectivity		Tamper Alarm	Supported
LAN	1 X RJ45 10/100M ethernet interface	Panic Alarm	Supported
Wi-Fi Standard	Support 802.11b/g/n	Low Battery Warning	Supported
GSM Band	GSM850/900/1800/1900MHz	Notifications	Push Notification (App) / SMS Messages (Mobile Phone)
Siren		Quick Pairing	Pre-pairing & QR Code pairing
Build-in siren	100dB /30cm	Updatable Firmware	Supported

